

Title (en)

Multiparalleling system of voltage source power converters

Title (de)

Verfahren zum Parallelschalten einer Vielzahl von Spannungsquellen-Leistungswandlern

Title (fr)

Système pour la connection en parallèle d'une pluralité de convertisseurs de puissance à source de tension

Publication

EP 0851567 B1 20040310 (EN)

Application

EP 97204082 A 19971223

Priority

US 77364896 A 19961224

Abstract (en)

[origin: US5757634A] A system of multiparalleling a set of voltage source power converters is provided in which any one of the converters may assume the role of a master or a slave. The system can survive the failure of either the master or any of the slaves. A main controller issues PWM command signals to control the current generated in the power converters. The PWM command signal is modified for each power converter such that all of the converters produce the substantially the same current, the current generated in the master unit being used as a reference. A current feedback signal is used to provide the main controller with an accurate estimate of the total current generated by the system.

IPC 1-7

H02M 7/48

IPC 8 full level

H02M 7/48 (2007.01); **H02M 7/493** (2007.01)

CPC (source: EP US)

H02M 7/493 (2013.01 - EP US)

Cited by

EP2725701B1

Designated contracting state (EPC)

CH DE FI FR IT LI

DOCDB simple family (publication)

US 5757634 A 19980526; DE 69728028 D1 20040415; DE 69728028 T2 20050728; EP 0851567 A2 19980701; EP 0851567 A3 19990113; EP 0851567 B1 20040310

DOCDB simple family (application)

US 77364896 A 19961224; DE 69728028 T 19971223; EP 97204082 A 19971223